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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/720,237	11/25/2003	Takashi Shibuya	03500.017737	4343	
5514 75	90 06/16/2005		EXAMINER		
FITZPATRICK CELLA HARPER & SCINTO			GLEITZ, RYAN M		
30 ROCKEFEL NEW YORK, 1			ART UNIT	PAPER NUMBER	
,			2852		
			DATE MAILED: 06/16/200:	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	T)			
		10/720,237	SHIBUYA ET AL.				
Office Action Summary		Examiner	Art Unit				
		Ryan Gleitz	2852				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet wi	th the correspondence add	lress			
THE - Exte after - If th - If NO - Failt Any	MORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR 1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a re to period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statu- tor reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply within the statutory minimum of thirt d will apply and will expire SIX (6) MON ute, cause the application to become AB	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this control (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on	·					
·	•	is action is non-final.					
3)	Since this application is in condition for allow	ance except for formal matte	ers, prosecution as to the	merits is			
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposit	tion of Claims						
4)⊠	Claim(s) 1-30 is/are pending in the application	n.		٠			
	4a) Of the above claim(s) 10-30 is/are withdra	awn from consideration.					
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-5 and 7-9 is/are rejected.						
7)🖂	Claim(s) <u>6</u> is/are objected to.						
8)	Claim(s) are subject to restriction and/	or election requirement.					
Applicat	ion Papers	•					
9)⊠	The specification is objected to by the Examir	ner.					
10)⊠	The drawing(s) filed on 25 November 2003 is	/are: a)⊠ accepted or b)□	objected to by the Exami	ner.			
	Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ice. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the corre	ction is required if the drawing	(s) is objected to. See 37 CFF	R 1.121(d).			
11)	The oath or declaration is objected to by the E	Examiner. Note the attached	I Office Action or form PT0	D-152.			
Priority (under 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for foreig ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority document	nts have been received.					
	2. Certified copies of the priority documer	nts have been received in A	pplication No				
	3. Copies of the certified copies of the pri	· ·	received in this National S	Stage			
	application from the International Burea						
* (See the attached detailed Office action for a lis	st of the certified copies not	received.				
Attachmer	nt(s)						
_	ce of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)				
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date	450)			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	8) 5) ☐ Notice of Ir 6) ☐ Other:	nformal Patent Application (PTO-	102)			

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-9 and 17-24, drawn to a member having a first and second glossinesses in different directions, classified in class 399, subclass 302.
- II. Claims 10-16 and 25-30, drawn to optical detection device for a molded belt, classified in class 399, subclass 49.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the optical detection device can be used to detect test toner images on conventional belts having uniform glossiness. The subcombination has separate utility because the image bearing member or transfer material supporting member could be a roller, a drum, or a belt nor manufactured or produced from a mold.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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After Applicant elects either Group I or Group II, a restriction is further required to the following patentably distinct species of the claimed invention:

Species A - An image forming apparatus having an intermediate transfer member as shown in figure 1.

Species B - An image forming apparatus having a transfer material supporting member as shown in figure 11.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 10-14, 16, and 25-30 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

During a telephone conversation with Michael Didas on 9 June 2005 a provisional election was made with traverse to prosecute the Invention I and Species A, claims 1-9.

Affirmation of this election must be made by applicant in replying to this Office action. Claims 10-30 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito et al. (JP 2002-351269) in view of Kaga (JP 2003-107922).

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Saito et al. disclose an image forming apparatus including an endless intermediate transfer belt (6) as image bearing member for bearing a toner image and optical detection device (10) including a light-emitting portion (41) and light-receiving portion (42); wherein a light emitted from the light-emitting portion (41) is reflected by the image bearing member (6) and is received by the light-receiving portion (42); and an optical direction from the light-emitting portion (41) to the light-receiving portion (42).

The optical detection device (10) detects a toner density on the image bearing member.

Abstract, line 12.

The optical detection device (10) detects a mark on the image bearing member. Abstract, line 14.

A support member (6a) Is for supporting the belt, wherein the optical detection device (10) is opposed to the support member across the belt (6).

An image forming condition for forming a toner image is controlled according an output of the optical detection device (10). Abstract, lines 14-16.

Saito et al. is silent as to the glossiness of belt (6).

However, Kaga disclose a similar endless belt having a first glossiness in a first direction, perpendicular to a moving direction of the belt, and a second glossiness in a second direction lower than the first glossiness to provide a conductive endless belt having excellent strength, especially excellent bending durability, creeping resistance and further dimensional stability. Abstract, lines 1-15.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image forming apparatus of Saito et al. with the glossinesses of the belt

as taught by Kaga so that the balance of the kinetic property of the direction of a driving shaft of a belt and the transit direction can be optimized, and the conductive endless belt equipped with good crookedness endurance and creep resistance can be realized. See translation, [0031].

Allowable Subject Matter

Claims 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Other Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yasuda et al. (US 5,256,621) disclose a thermal transfer image receiving sheet having different glossinesses in different directions.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Gleitz whose telephone number is (571) 272-2134. The examiner can normally be reached on Monday-Friday between 9:00AM and 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

yb rg

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